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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

02/27/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

TRIEU, THAI BA

ART UNIT PAPER NUMBER

3748

DATE MAILED: 02/27/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,441	07/18/2006	Koichi Akita	I28779	4854

TITLE OF INVENTION: CONTROL DEVICE FOR SUPERCHARGER WITH ELECTRIC MOTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/27/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including the delow or directed other than the delow or directed other than the delow of the d	ng the Patent, advance of herwise in Block 1, by (orders and notification of r (a) specifying a new corres				
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							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/586,441	07/18/2006		Koichi Akita			12 8779	4854
TITLE OF INVENTION	N: CONTROL DEVICE I	FOR SUPERCHARGER	WITH ELECTRIC MOTO	R			
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/27/2009
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TRIEU,	ГНАІ ВА	3748	060-608000	•			
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_			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			2 registered patent attorneys or agents. If no name is 3				
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PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	e data will appear on the p	atent. If an assign	ee is id	lentified below, the do	cument has been filed for
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Please check the appropr	riate assignee category or	categories (will not be p	printed on the patent):	Individual 🖵 Co	orporati	on or other private gro	up entity 🖵 Government
4a. The following fee(s)	are submitted:	4	lb. Payment of Fee(s): (Plea	se first reapply ar	ıy prev	iously paid issue fee s	hown above)
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Publication Fee (No small entity discount permitted) Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
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5. Change in Entity Sta	i tus (from status indicate ns SMALL ENTITY stati	*	b. Applicant is no lon	per claiming SMAI	L ENT	FITY status. See 37 CE	R 1 27(9)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be accept	ed from anyone other than t				
interest as shown by the	records of the United Sta	ites Patent and Trademar	k Office.				
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Typed or printed name			Registration No.				
This collection of inform	nation is required by 37 C	CFR 1.311. The informati	ion is required to obtain or i	etain a benefit by t	he publ	ic which is to file (and	by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggest Box 1450 Alexandria V	stiality is governed by 35 d application form to the ions for reducing this but Jirginia 22313-1450 DC	U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the ONOT SEND FEES OF	1.14. This collection is est y depending upon the individed Chief Information Office COMPLETED FORMS TO	imated to take 12 i idual case. Any co r, U.S. Patent and THIS ADDRESS	minutes mment Traden	to complete, including s on the amount of tin nark Office, U.S. Depa D.TO: Commissioner f	g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Boy, 1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/586,441	07/18/2006	Koichi Akita	128779	4854	
25944 75	590 02/27/2009		EXAM	INER	
OLIFF & BERR	IDGE, PLC	TRIEU, THAI BA			
P.O. BOX 320850			ART UNIT	PAPER NUMBER	
ALEXANDRIA, V	/A 22320-4850		3748		
			DATE MAILED: 02/27/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 332 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 332 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/586,441	AKITA, KOICHI	
Notice of Allowability	Examiner	Art Unit	
	Thai-Ba Trieu	3748	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. This communication is responsive to <u>11/06/2008</u> .			
2. The allowed claim(s) is/are <u>1-12</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	been received. been received in Application No cuments have been received in this r	national stage application from the	
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		S AMENDMENT OF NOTICE OF	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (PTO-9 s Amendment / Comment or in the O	office action of	
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	atent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413),	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendn	nent/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	nt of Reasons for Allowance	

DETAILED ACTION

This Office Action is in response to the Amendment filed on November 06, 2008. Applicant's cooperation in amending the claims to overcome the claim rejections relating to indefinite claim language is also appreciated.

Claims 1-3, 7 were amended; and

Claims 10-12 were newly added.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or renders obvious the claimed combination of a control apparatus for an electrically assisted supercharger comprising a supercharger disposed on an intake passage of an internal combustion engine mounted on a vehicle, and-driven by an electric motor; controlling means for controlling the electric motor to control a boost pressure; pressure detecting means for detecting a state of the atmospheric pressure, an intake air mass detecting means for detecting the intake air mass; a turbocharger for performing supercharging by making use of an exhaust flow of the internal combustion engine; and including:

"a variable nozzle mechanism for variably controlling a supercharging state by the turbocharger; wherein:

when the atmospheric pressure detected by the pressure detecting means becomes less than a predetermined value, the controlling means makes a driving force of the electric motor larger than that when the atmospheric pressure is not less than the predetermined value,

when the atmospheric pressure detected by the pressure detecting means becomes more than the predetermined value, the variable nozzle mechanism controls the variable nozzle opening with a feedback control based on a deviation in an intake air mass detected by the intake air mass

detecting means and a target intake air mass determined based on an operating state of the internal combustion engine, and

when the atmospheric pressure detected by the pressure detecting means becomes less than the predetermined value, the variable nozzle mechanism prohibits the variable nozzle opening with the feedback control, based on the deviation between the intake air mass and the targeted intake air mass, and controls the variable nozzle opening with the targeted variable nozzle opening calculated based on the rotation number and load of the internal combustion engine."

Examiner's Comment

The heading on page 6 of the Office Action mailed on August 15, 2008 is corrected as following:

"Claims [[3]] 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeuchi Makato (Pub. Number JP 06-288246 A), in view of Aoki Atsushi et al. (Pub. Number JP 2001-336433 A), and further in view of any of Woollenweber (Patent Number 6,141,965), Woollenweber (Patent Number 6,079,211), and Halami(Patent Number 6,029,457)."

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/586,441 Page 4

Art Unit: 3748

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (571) 272-

4867. The examiner can normally be reached on Monday - Thursday (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TTB February 3, 2009 /Thai-Ba Trieu/ Primary Examiner Art Unit 3748